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PRESENTED

9 JAN 1951

ANNUAL REPORT

AND

TRANSACTIONS

OF THE

YORKSHIRE

PHILOSOPHICAL SOCIETY

FOR THE YEAR

1949-50

PRESENTED TO THE ANNUAL MEETING,

17th APRIL, 1950.

PRINTED BY ORDER OF THE COUNCIL.

1950.

The Yorkshire Philosophical Society.

(Founded 1822.)



Patroness :

HER MAJESTY QUEEN MARY.

Trustees :

THE RT. HON. THE EARL OF SCARBROUGH, K.G.

THE RT. HON. THE EARL OF FEVERSHAM, D.S.O.

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GEORGE A. AUDEN, M.D., M.A., Ph.D., F.R.C.P., F.S.A.

GEOFFREY THOMPSON, M.A., F.S.A.

COL. INNES N. WARE, O.B.E.

Officers for the Year 1950:

President :

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GEOFFREY THOMPSON, M.A.,
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K. E. T. WILKINSON, B.A.,
LL.B.

J. B. MORRELL, J.P.

GERALD S. HUGHES, F.R.C.S.,
J.P.

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NOEL G. TERRY, M.B.E., J.P.

E. WILFRED TAYLOR, C.B.E.,
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COL. B. X. JESSOP, M.A.

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COL. C. H. GREY

J. STUART SYME, F.R.I.B.A.,
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F.S.A., F.R.Hist. S.

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J. TAYLOR THOMPSON, M.C.,
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Hon. Treasurer :

J. L. BROCKBANK, M.A.

Hon. Secretary :

STEPHEN HARLAND, M.A., LL.B.

Committees :**General Purposes and Finance Committee :**

J. L. BROCKBANK.	A. WENTWORTH PING.
F. E. HARRISON.	GEOFFREY THOMPSON.
H. E. HARROWELL	J. TAYLOR THOMPSON.
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B. X. JESSOP.	SIR WILLIAM WORSLEY, BART.
J. B. MORRELL.	

Garden Committee :

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J. L. BROCKBANK.	K. E. T. WILKINSON.
GERALD S. HUGHES.	NOEL G. TERRY.

Museum Committee :

SIR CHARLES RICHMOND	REV. DR. J. S. PURVIS.
BROWN., BART.	ARTHUR SMITH.
MRS. DERWAS CHITTY.	J. STUART SYME.
A. A. DALLMAN	E. WILFRED TAYLOR.
J. H. ELLIOTT.	GEOFFREY THOMPSON.
DR. J. H. FIDLER.	J. F. E. GELSON WALKER.
A. WENTWORTH PING.	F. DIXON.

Library Committee:

F. DIXON.	F. E. HARRISON.
R. DOHERTY.	REV. DR. J. S. PURVIS.
MRS. FIDLER.	A. SMITH.

The President, the Hon. Secretary and Hon. Treasurer are *ex-officio* members of all Committees.

York and District Field Naturalists' Section.

Officers elected April, 1950:

President:

G. HOWARD.

Vice Presidents :

J. H. FIDLER.

W. G. BIRCH.

C. F. SWEETMAN.

A. W. PING.

Hon. Secretary :

KENNETH G. PAYNE, A.R.C.S., B.Sc.

West Dene, Manor Heath, Copmanthorpe.

Hon. Treasurer :

G. KIRKMAN,

45 Green Lane, Acomb, York.

The Annual Subscription to the Section is five shillings. Membership is open to both members and non-members of the Yorkshire Philosophical Society. Members of the Yorkshire Philosophical Society are cordially invited to the lectures.

REPORT OF THE COUNCIL

OF THE

YORKSHIRE PHILOSOPHICAL SOCIETY

17th APRIL, 1950.

GENERAL REVIEW

STAFF

AFTER rendering excellent service over a period of nearly three years, Mr. Dudley Waterman left the services of the Society to take up the appointment of Curator of the Isle of Wight Archaeological Museum. As a token of appreciation of Mr. Waterman's services your Council was pleased to elect him to Honorary Membership of the Society.

Mr. Anthony Tynan, trainee assistant during the past two years, was accepted as a student at Reading University, and Mr. Geoffrey Watson was appointed to succeed him. Since his appointment, Mr. Watson has set up a series of most interesting and instructive cases illustrative of life in the past from pre-Cambrian times to the present day.

Miss Elizabeth Begg, student trainee from New Zealand, in the department of archaeology and natural history, left to undergo a course of further study at the Institute of Archaeology.

THE MUSEUM

If anything, routine determinations of both natural history and archaeological material increased during the year and this, together with the absence of the Keeper owing to illness, and changes in staff, considerably delayed the preparation of material for exhibition.

The study collections continue to grow and our relations with allied institutions have been close.

OBSERVATORY

At no expense to this Society the rehabilitation of the Observatory was completed by Mr. Neville Vear, Honorary Curator of Astronomy, and by Mr. F. Vear, his father. For their generosity and unstinted support of the Society's work your Council is most grateful.

THE GARDENS

In view of the forthcoming Festival of 1951 the Council is proceeding with all possible speed to lay out many parts of the grounds with new bedding material as part of an overall plan to make the grounds as attractive as possible for what promises to be a memorable occasion. During the year much dead wood was removed from the inner beds for the reception of flowering shrubs. The rock garden has been entirely remodelled and attention has been paid to

the herb garden with the intention of re-establishing this corner of the grounds to its former usefulness and interest to botanists.

LECTURES

The following lectures were given in the Tempest Anderson Hall under the Society's auspices:

- 4th February, 1949... "Ancient Plants," E. G. WILLIAMS, M.A.
 9th February, 1949... "Methods in Archaeological Fieldwork," R. J. C. ATKINSON, M.A., F.S.A.
 16th February, 1949 "Skokholm, the Island of Birds" and other films. G. H. J. FURSDON (Former Warden on Skokholm).
 9th March, 1949 ... "Cave Exploration in Derbyshire," A. LESLIE ARMSTRONG, M.C., F.S.A.

FINANCE

Routine expenditure and receipts resulted in a small adverse balance rather less than last year's because of income from the admission to the museums and grounds reaching a record. On the other hand special expenditure was incurred towards the end of the year to improve the gardens, resulting in a final adverse balance of £177 on the year's working.

MEMBERSHIP

The number of members remains about the same.

NEW MEMBERS, elected in 1949

- Appleton, Miss T. M., 21 Bootham Terrace
 Ashworth, H., 25 St. Mary's
 Birch, Mrs. W. H., "Heath Holme", Fulford
 Bowman, S., 25 Hempland Lane
 Buckle, Miss S., 4 Bean Street, Marygate
 Clarson, Mrs. O. B., 23 St. Mary's
 Crawford, R., 1 Scarborough Terrace
 Evans, Dr. Alexander, Clifton Court Private Hotel, Clifton
 Firth, Mrs. M., "Gillcroft", 304a The Mount
 Gadsby, G., 36 Petergate
 Gofton, G. H., 33 Bootham
 Healey, H., 4 Earlsborough Terrace
 Hind, J. F., 55 Westminster Road, Clifton
 Hodgson, H., 3 Granger Avenue, Acomb
 Holmes, C. A., 27 Gillygate
 Holmes, Walter, 34 St. Mary's
 Houlden, Mrs. R., "Glenroyd", Station Road, Strensall
 Johnson, Bernard P., M.A., F.S.A., 218 Mount Vale
 Johnson, S., Tower House, Ogleforth
 Kent, George, 35 Hutton Street, Hartlepool
 Kilburn, Mrs. W., 26 Queen Anne's Road
 Lawn, J. H., 42 Falsgrave Crescent, Burton Stone Lane
 Loftus, W. H., 21 Heworth Hall Drive
 Lupton, H., 15 Bootham
 Lutman, Albert, 40 Queen Anne's Road

Lynch, Mrs. M. E., 23 St. Mary's
 Morrall, H. B., St. Mary's House, York Road, Haxby
 Mummery, J. E., c/o National Provincial Bank, Ltd., York
 Owen, Mrs. Nancy, 44 Bootham Crescent
 Peverley, C. E., 5a Church Street
 Pew, Harry, 39 Bootham
 Ridley, Miss K., 51 St. Olave's Road
 Swanson, Miss M. G., 15 Queen Anne's Road
 Vint, Brigadier C. D., 2 Alan House, Bootham
 Ware, C. R., 22 Queen Anne's Road
 Wells, Mrs. Muriel, 5 Queen Anne's Road
 Whincup, Mrs. D., 3 Queen Anne's Road
 Woodward, F. H., M.A. (Cantab.), 39 Parker Street, London. W.C.2.

DEATHS

Ankers, Albert G., 3 Clayton Street, Marygate
 Buckle, Mrs. M. A., 4 Bean Street, Marygate
 Clark, G. T., 31 Wentworth Road
 Cuthbert, T. E., 6 Queen Anne's Road
 Hill, Rev. W. Noel, Pottergate, Helmsley
 Holman, Mrs. R., 23 Longfield Terrace
 Rowntree, Theodore, Clifton Lawn
 Stabler, G. W., 11 Westminster Road
 Tennant, Thomas, 21 Sycamore Terrace
 Towler, George, 14 Bootham Terrace
 Walker, E. G., 17 Little Stonegate
 Watson, Major-Gen. Sir Charles Gordon-, K.B.E., C.M.G., Yorkshire Club

DEATHS AND RESIGNATIONS

Members	...	...	...	...	...	48
Lady Subscriber	...	...	...	...	...	1
Ticket Holders	...	...	...	...	...	8
						—
						57
						—

NEW MEMBERS

Members	...	...	...	...	...	38
Ticket Holders	...	...	...	...	...	4
						—
						42
						—

TOTAL MEMBERSHIP ON 31st DECEMBER, 1949

Honorary Members	...	...	...	...	...	24
Members	...	...	...	...	...	363
Lady Subscribers	...	...	...	...	...	7
Associates	...	...	...	...	...	2
Ticket Holders	...	...	...	...	...	40
						—
						436
						—

Dr.		THE YORKSHIRE PHILOSOPHICAL SOCIETY.						INCOME	
31st Dec., 1948.		EXPENDITURE.							
£	s. d.	£	s. d.			£	s. d.	£	s. d.
		To Salaries and Wages :							
		Museums	...	...	...	1901	11 8		
		Lodge and Gardens	...	...	...	904	10 3		
		Staff Pension	...	...	...	80	12 0		
		National Health and Unemployment Insurance	...	...	...	114	0 2		
		Superannuation (Employers' Contribution)	...	...	...	106	12 8		
3098	11 6							3107	6 9
		To Maintenance of Properties and Land :							
		Rent and Rates	...	...	...	94	16 2		
		Heating, Lighting and Water	...	...	...	474	5 2		
		Museum—Repairs	...	...	...	64	1 3		
93	3 7								
506	13 4								
57	6 8								
		General Expenses :							
		Museums	...	...	...	113	9 11		
		Gardens	...	...	...	147	9 3		
		Bowling Green	...	...	...	7	15 2		
		Estate	...	...	...	129	17 2		
194	16 2								
103	18 0								
11	10 10								
57	13 8								
367	18 8					398	11 6		
								1031	14 1
		To Miscellaneous Expenses :							
		Books, Printing and Stationery	...	...	...	123	2 0		
		Insurance	...	...	...	62	3 3		
		Telephone and Postages	...	...	...	64	5 8		
40	0 8								
59	4 0								
81	4 3								
180	8 11							249	10 11
		NOTE.—No provision has been made in these Accounts for the cost of printing the 1948/49 and 1949/50 Annual Reports, relating to the Accounts for the two years ended 31st December, 1949.							
		To Lectures—							
		Fees and Expenses	...	...	...			19	17 6
28	4 3								
		To Additions :							
		Library	...	...	...	31	6 0		
		Museum	...	...	...	1	6 0		
30	14 11								
26	3 11								
56	18 10							32	12 0

Dr.

INCOME AND EXPENDITURE ACCOUNTS

31st Dec., 1948.

EXPENDITURE.

Wm. REED

£	s.	d.								£	s.	d.
53	0	10	To New Books and Binding...	...	...	...	...	...	...	32	9	6
										<u>£32 9 6</u>		
<u>£53 0 10</u>												

H. J. WILKINSON

£	s.	d.								£	s.	d.
—	—	—	To Herbarium Expenses	...	...	...	...	...	...	35	10	9
6	18	9	To Balance, being Income, carried to Balance Sheet	...	...	...	...	...	...	—	—	—
										<u>£35 10 9</u>		
<u>£6 18 9</u>												

SPECIFIC PURPOSES.

 For the Year Ended 31st December, 1949.

Cr.

1st Dec., 1948.

INCOME.

REQUEST.

£	s.	d.		£	s.	d.
23	3	8	By Interest on £579 12s. 5d. 4% Consolidated Stock (Gross) ...	23	3	8
0	3	6	By Bank Interest	—	—	—
29	13	8	By Balance, being Excess of Expenditure over Income, carried to Balance Sheet	9	5	10
<hr/> £53 0 10 <hr/>				<hr/> £32 9 6 <hr/>		

MEMORIAL FUND.

£	s.	d.		£	s.	d.
6	11	6	By Interest on £164 8s. 6d. 4% Consolidated Stock (Gross) ...	6	11	6
0	7	3	By Bank Interest	—	—	—
—	—	—	By Balance, being Excess of Expenditure over Income, carried to Balance Sheet... ..	28	19	3
<hr/> £6 18 9 <hr/>				<hr/> £35 10 9 <hr/>		

THE YORKSHIRE PHILOSOPHICAL SOCIETY.

LIABILITIES.

31st Dec., 1948.
£ s. d.

Capital Account.

	£	s.	d.	£	s.	d.
Balance at 1st January, 1949	42741	2	6			
Add:—Net Profit on Conversion of Securities	15	17	8			
				42757	0	2

42741 2 6

52 15 11

Subscriptions paid in advance

43 0 0

143 7 11

Sundry Creditors

253 8 2

Re-organization Fund Account :

Balance at 1st January, 1949	498	13	8
Add:—35 St. Olave's Road (purchased in 1947) written back and included under Freehold Property (per contra)...	1250	0	0

1748 13 8

Deduct :—Expenses on re-equipment and improvement for year ended 31st December, 1949

531 1 11

498 13 8

1217 11 9

Income and Expenditure Account :

Balance at 1st January, 1949	635	7	1
Less :—Excess of Expenditure over Income for the year ended 31st December, 1949	177	16	0

635 7 1

457 11 1

£44071 7 1

Carried forward

£44728 11 2

BALANCE SHEET, AT 31st DECEMBER, 1949.

31st Dec., 1948.				ASSETS.								
£	s.	d.		£	s.	d.		£	s.	d.		
				Freehold Property and Land.								
				Museum Gardens.	} Not valued for the purposes of this Balance Sheet.							
				32 and 34, Bootham (Tempest Anderson Bequest).								
				Manor Cottage								
				St. Mary's Lodge.								
				Baths Cottage, Marygate.								
				10 Bootham.								
				At Cost.								
				35 St. Olave's Road	...	...	...	...	1250	0	0
				Investments								
				TEMPEST ANDERSON BEQUEST (At Cost).								
10183	8	9		£10,271 1s. 8d. 3½% War Stock	...	...	10183	8	9		
2500	0	0		£2,500 York Corporation 2½% Loan	...	...	2500	0	0		
2000	0	0		£2,000 2½% Defence Bonds	...	...	2000	0	0		
7967	11	0		£12,876 13s. 8d. 3% Treasury Stock	...	...	7967	11	0		
—	—	—		£1,649 6s. 9d. 3½% Conversion Stock	...	...	1509	8	10		
8000	0	0		£8,000 Mortgage Ings Property Trust Company Ltd. 4%	...	...	8000	0	0		
617	13	5		£621 7s. 2d. British Electricity 3% Guaranteed Stock 1968/73	...	...	617	13	5		
1500	0	0		£1,500 2½% National War Bonds 1951/53	...	...	—	—	—	
				At Conversion Value on 1st January. 1948.								
900	0	0		£900 Rotherham Corporation Mortgage at 3%	...	...	900	0	0		
7377	5	0		£7,377 5s. 0d. British Transport 3% Guaranteed Stock 1978/88	...	...	7377	5	0		
				RAWDON BEQUEST (At Cost).								
—	—	—		£935 17s. 10d. 3½% Conversion Stock	...	...	856	8	10		
850	0	0		£850 2½% National War Bonds (1949-51)	...	...	—	—	—	
				ST. QUINTIN BEQUEST (At Cost).								
250	0	0		£247 11s. 2d. 3½% Conversion Stock	...	...	250	0	0		
				WM. DOVE BEQUEST (At Cost).								
500	0	0		£500 3% Defence Bonds	...	...	500	0	0		
				42645 18 2					42661 15 10			
Note—Market value at 31st December, 1949=£43.612 2s. 11d.												
114	9	6		Sundry Debtors	...	...	...	...	66	18 1	
				Suspense Account (Ellis Collection)—								
				Amount expended	...	...	...	500	0	0	
				Deduct:—Subscriptions received to date	...	...	...	233	19	3	
267	13	3						266	0	9		
				Carried forward...				£44244 14 8				

THE YORKSHIRE PHILOSOPHICAL SOCIETY.

LIABILITIES.

31st Dec., 1948.															
£	s.	d.	£	s.	d.					£	s.	d.	£	s.	d.
4407	1	7	1			Brought forward			44728	11	2

4407	1	7	1							44728	11	2
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FUNDS FOR SPECIFIC PURPOSES.

WM. REED BEQUEST.

Balance at 1st January, 1949	686	13	8	
<i>Less :—</i> Excess of Expenditure over Income for the year ended 31st December, 1949 ...						
			9	5	10	
			<hr/>			677 7 10

H. J. WILKINSON MEMORIAL FUND.

Balance at 1st January, 1949	...	...	...	261	19	6	
<i>Less:—</i> Excess of Expenditure over Income for							
the year ended 31st December, 1949...		...		28	19	3	
				<hr/>			233 0 3

£45020	0	3								£45638	19	3
--------	---	---	--	--	--	--	--	--	--	--------	----	---

REPORT OF THE AUDITORS TO THE MEMBERS OF

We have examined the foregoing Balance Sheet and Income and Expenditure Accounts with have verified the Cash Balances and Investments.

8, Coppergate, York.

9th March, 1950.

BALANCE SHEET, AT 31st DECEMBER, 1949—continued.

ASSETS.

1st Dec. 1948.															
£	s.	d.	£	s.	d.					£	s.	d.	£	s.	d.
13028	0	11				Brought forward ...	...	...	...	...			44244	14	8
Cash at Bank—															
	95	4	4			Midland Bank, Ltd. (Capital Account)	...		95	4	4				
	88	12	1			Do. (Current Account)	...		59	0	2				
	738	19	9			York County Savings Bank	...	...	215	18	8				
922	16	2											370	3	2
120	10	0				Payments in Advance ...	...	...	...				113	13	4
44071	7	1											44728	11	2

FUNDS FOR SPECIFIC PURPOSES.

WM. REED BEQUEST.

650	0	0	£579 12s. 5d. 4% Consolidated Stock (at cost)	650	0	0	
Note :—Market Value at 31st December, 1949=£585 8s. 4d.							
	36	13	8	Cash at Midland Bank, Ltd. ...		27	7 10
686	13	8					677 7 10

H. J. WILKINSON MEMORIAL FUND.

185	0	0	£164 8s. 6d. 4% Consolidated Stock (at cost)	185	0	0	
Note:—Market Value at 31st December, 1949=£166 1s. 5d.							
	76	19	6	Cash at Midland Bank Ltd. ...		48	0 3
261	19	6					233 0 3

45020	0	3	£45638 19 3
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THE YORKSHIRE PHILOSOPHICAL SOCIETY.
We the Books and Vouchers of the Society, and certify the same to be in accordance therewith. We
PULLEYN, CREER & CO.,
Chartered Accountants.

FORM
OF A
BEQUEST TO THE SOCIETY.

Every person desirous of bequeathing to the Society any sum of Money, Specimens, Books, Instruments, or other Property, is requested to make use of the following form:—

*I give and bequeath to the Trustees, for the time being, of the Society established at York, called “**The Yorkshire Philosophical Society,**” for the use of the said Society, the sum of _____ to be paid out of such part of my personal estate as I may legally charge therewith. [Or here enumerate the effects or property intended to be bequeathed.] And I direct that the receipt of the Treasurer of the said Society, for the time being, shall be an effectual discharge to my Executors for the said legacy.*

TRANSACTIONS
OF THE
YORKSHIRE PHILOSOPHICAL SOCIETY,
1949-50.

DEPARTMENTAL REPORTS

MEDIAEVAL ARCHITECTURE.—Honorary Curator, Mr. J. Stuart Syme, F.R.I.B.A., F.S.A.

During the past year careful thought has been given to the question of the future of the collection of mediaeval remains in the possession of the Society.

It is realised that the present arrangement of the exhibits leaves much to be desired because of overcrowding and lack of system in the layout. Notwithstanding this it can truthfully be said that even under the present imperfect conditions the seriously minded visitor and student has facilities for viewing examples of mediaeval art such as would be difficult to find elsewhere in England.

Any scheme for the better display of the collection will be handicapped by the serious lack of adequate space and by the heavy expenditure that would be entailed by the movement of the specimens. A substantial improvement could be effected by the removal of some of the many duplicate specimens of moulded stonework and other items of minor interest which now encumber the floor space. Even a minor operation like this would be expensive in these days of heavy labour costs, and voluntary help for heavy work of this kind would be difficult to obtain.

The Committee is fully alive to the urgency of the need for an improvement in the display of the collection and will do everything possible to achieve something in that direction during the coming year.

The necessity for the reconditioning of the portion of the gardens within the walls of the Abbey Church has also engaged the attention of the Committee. The area of the old Choir and Sanctuary has suffered seriously not only because of unavoidable neglect during the war years but also from the upheaval caused by the explosion of a bomb in the foundations of the Norman apse. Here again the matter of expense is a major consideration, but it is hoped that part of the cost of the damage caused by enemy action may be borne by the War Damage Commission.

The Committee is in communication with the Ancient Monuments division of the Ministry of Works with a view to a joint examination of the problem on the site and an agreement as to the proper methods to be adopted for putting the foundations and the ground surface generally into satisfactory condition.

COINS AND MEDALS.—Honorary Curators, Mr. J. F. E. Gelson Walker, M.A., and Mr. Geoffrey Thompson, M.A., F.S.A.

On 12th July, 1949, Mr. William Plant discovered an earthenware jar in a field at Skipton Bridge, near Thirsk, containing 383 silver coins. These consisted of groats, half groats and pennies, and dated from Edward I to Henry IV. An inquest on the hoard was held at Thirsk by the Coroner, Col. Innes Ware, assisted by a jury, and it was found to be Treasure Trove. The coins were sent to the British Museum, where the authorities kept 27 of them, then kindly allowed this Society to acquire 126 of the remainder, chosen by the Curators, to be kept together and to show the types of the hoard.

Mr. Ben Foggitt, of Thirsk, presented a large parcel of mixed coins for the Museum and young collectors. From this gift some nice specimens were put in the collection, including Roman, seventeenth and eighteenth century tokens and one rare nineteenth century Beverley threepence.

Many enquiries have been answered, and the Curators have endeavoured to keep in touch with the latest developments in Numismatics.

ENTOMOLOGY.—Honorary Curator, Dr. J. H. Fidler, M.A.

During the period under review, the re-organization of the Coleoptera collections has been continued. Press of outside commitments and the fact that the only time free to the Honorary Curator to do this work is in the evenings has meant that progress has been slow. A start has however been made on the *Carabidae*, a group which is particularly well represented in the Ellis collection as well as the other collections in the Society's hands.

Additions have again been made to the *Orthoptera* collection and this is now comparatively complete, only lacking those species which are restricted to the south-west of the country. The *Diptera* collection has also been looked through with a view to arranging it in some order. This has, however, proved impossible, owing to the large number of unidentified specimens and the almost complete lack of literature on this group in the Society's library.

Other activities have included the preparation of a series of specimens illustrating various methods of preserving and setting the various families of insects. This has proved of considerable use in the training of students. This period has also seen the publication of the list of the Coleoptera of Askham Bog. This paper, published in the *Naturalist*, has been reprinted as a booklet under the auspices of the Yorkshire Naturalists' Trust Ltd.

METEOROLOGY.—Honorary Curator, Mr. A. Wentworth Ping, M.A., F.R.Met.Soc.

Recorder, Mr. A. Colley.

Statistics of Station: Longitude $1^{\circ} 5' W.$; Latitude, $53^{\circ} 57' N.$; height above mean sea level, 56 feet.

Rainfall. Rain or snow fell to the amount of 19.98 inches as against 23.55 inches for 1948, a decrease of 3.57 inches, and 4.46 inches below the average of 24.44 inches for the preceding 50 years. The wettest months of the year were November 3.25 inches, April 2.48 inches, July 2.42 inches and October 2.24 inches. The driest months were June 0.57 inches, February 0.62 inches, January 0.68 inches and September 0.80 inches. The heaviest fall of the year occurred on 13th July, when 0.97 inches fell.

Temperature. Temperature ranged from 87° F. on 12th July to 22° F. on 5th February; the range of temperature for 1949 being 65° F. as against 62° F. for 1948.

The mean temperature for the year (mean of max. and min.) was 51.2° F., as against 50.0° F. for 1948. July gave the highest mean with 63.3°, then August with 62.7°. March and January were the lowest with 41.1° and 41.3° respectively.

Barometer. A mean pressure of 1016.8 millibars (30.02 inches) (1000 millibars=29.531 inches of mercury) at M.S.L. (corrected for diurnal variations) has been recorded as against 1014.9 millibars (29.97 inches) for 1948. November gave the lowest mean for the year 1006.3 millibars (29.71 inches). February was highest, 1023.9 millibars (30.24 inches). The highest reading of the barometer was taken on 30th January, 1044.4 millibars (30.84 inches), and the lowest on 1st January, 960.2 millibars (28.35 inches), all readings corrected to M.S.L. The extreme range was therefore 84.2 millibars (2.49 inches) as compared with 68.4 millibars (2.01 inches) in 1948.

Winds. Observations of winds show that during 1949 we had "strong" winds on 66 days (force 4—7 Beaufort Scale) as against 67 in 1948. The winds observed at 9 a.m., G.M.T., were N.W. 70; W. 65; S. 58; S.W. 58; S.E. 46; N. 34; N.E. 18; and E. 16.

Thunder, Snow and Hail. Thunder was heard on 12 days as against 10 days in 1948; snow or sleet fell on 13 days as against 10 days, and hail was recorded on 4 days as against 3 days the previous year.

Sunshine. Sunshine recorded at Bootham School amounted to 1560.8 hours as against 1331.7 hours in 1948, an increase of 229.1 hours for the year. The daily mean was 4.28 hours, and the percentage of possible sunshine 35 as against 30 in 1948. The sunniest months of the year were June with 243.2 hours and May with 221.2 hours. January and December were lowest with 38.0 and 43.6 hours respectively.

The year 1949 was notable for the exceptionally sunny weather. The months of May, June, July and August all exceeded 200 hours of sunshine each month, and high temperatures were recorded. February was unusually sunny with 103 hours of sunshine.

Rainfall was a good deal below the average. It was the driest year since 1921, and many areas suffered from drought and shortage of water supply.

January and February were chiefly mild and dry. Light falls of snow occurred early in March. April was warm and sunny, though the rainfall was rather in excess of the usual rainfall for the month. May on the whole was dry and sunny. June, July, August and September were exceptionally sunny, dry and warm, with temperatures exceeding 80 degrees. The rainfall in most areas for the last three months of the year was up to, or over, the average amount. Snow fell in York on 9th and 10th December, covering the ground for a period of three days.

There were periods of mild and sunny weather till the close of the year.

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1949.

Height above Ground :—Thermometers 4 ft. Rain-gauge 1 ft.

1949.	Air Temperature in Degrees Fahrenheit.										Earth Temperature		Rainfall.			Weather.							Bright Sunshine.										
	Means of		Absolute Extremes.								Means of Max. + Min.	H. Max.	Day.	L. Min.	Day.	L. Max.	Day.	H. Min.	Day.	At 1 ft.	At 4 ft.	Total.	Max. Fall.	Day.	Number of Days of						Total.	Daily Mean.	Per-centage of possible.
			H. Max.	Day.	L. Min.	Day.	L. Max.	Day.	H. Min.	Day.															Precipitation 0.2 in. or more.	Precipitation 1 in. or more.	Snow and Sleet	Snow Lying at 9 a.m.	Hail	Thunder heard			
	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	° F.	in.	in.											hr.	hr.	%								
Jan.	46.9	35.8	54	6, 7	26	3, 25	55	3	46	17, 19	40.6	44.3	13	5	1	0	0	0	38.0	1.23	15	0.68	0.21	15	0	0	0	0	38.0	1.23	15		
Feb.	48.6	35.5	55	14	22	5	39	4	48	3, 4	40.1	43.1	9	4	1	0	1	0	103.0	3.68	38	0.62	0.37	8	0	1	0	0	103.0	3.68	38		
Mar.	46.8	35.5	61	24	28	10	34	6	47	23	40.7	42.8	12	7	7	3	1	0	96.2	3.10	26	1.45	0.41	3	0	1	0	0	96.2	3.10	26		
April	58.3	43.6	75	15	34	9	43	1	53	12	47.4	45.2	15	8	1	0	2	1	139.2	4.64	33	2.48	0.65	5	0	2	1	0	139.2	4.64	33		
May	62.1	43.7	74	13	35	10	53	7	51	2, 23	52.1	48.9	15	10	0	0	0	2	221.2	7.13	45	1.80	0.72	27	0	0	0	0	221.2	7.13	45		
June	69.6	49.3	86	28	42	20	58	3, 16	58	28	57.8	52.8	9	5	0	0	0	1	243.2	8.11	48	0.57	0.15	3	0	0	0	0	243.2	8.11	48		
July	72.1	54.4	87	12	45	8	56	16	63	27	62.5	57.3	13	8	0	0	0	2	207.2	6.68	41	2.42	0.97	13	0	0	0	0	207.2	6.68	41		
Aug.	71.3	54.1	82	22	45	12, 17	63	11	60	16	61.8	58.8	8	6	0	0	0	3	200.8	6.48	43	1.76	0.43	10	0	0	0	0	200.8	6.48	43		
Sept.	68.9	53.7	84	5	47	18	57	30	65	5	60.5	58.9	9	5	0	0	0	3	131.3	4.38	35	0.80	0.20	4	0	0	0	0	131.3	4.38	35		
Oct.	59.4	46.5	72	2	30	28	46	28	59	7	54.5	56.8	15	11	0	0	0	0	83.8	2.70	26	2.24	0.74	25	0	0	0	0	83.8	2.70	26		
Nov.	48.9	38.7	55	4, 21	30	15	42	.19	48	5	45.7	50.7	21	18	0	0	0	0	53.3	1.78	21	3.25	0.43	17	0	0	0	0	53.3	1.78	21		
Dec.	47.2	37.6	55	2, 6, 7	29	12	35	10	47	28	42.6	47.1	20	14	3	3	0	0	43.6	1.41	19	1.91	0.36	9	0	0	0	0	43.6	1.41	19		
Totals	700.1	528.8	—	—	—	—	—	—	—	—	606.3	606.7	159	101	13	6	4	12	1560.8	51.32	—	19.98	—	—	July 13	—	—	—	1560.8	51.32	—		
Means or Extremes	58.3	44.1	87	—	22	5	34	Mar. 6	65	Sept. 5	50.5	50.6	—	—	—	—	—	—	—	4.28	35	—	0.97	—	—	—	—	—	—	4.28	35		

CLIMATOLOGICAL SUMMARY—THE YORKSHIRE MUSEUM, YORK, 1949.

Latitude 53° 57' N. Longitude 1° 5' W. Height above Mean Sea Level 57 ft.

[illegible]

THE interests of THE YORKSHIRE MUSEUM are primarily devoted to Natural History and Archaeology. Its fine collections cater not only for the general public, but also for specialist students in these two branches of cultural activity.

The Keeper would be interested to hear at all times of collections, large or small, which other institutions or private persons may have for disposal, and which could be used to extend the educational facilities already afforded the archaeologist, systematist and biologist at THE YORKSHIRE MUSEUM.



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